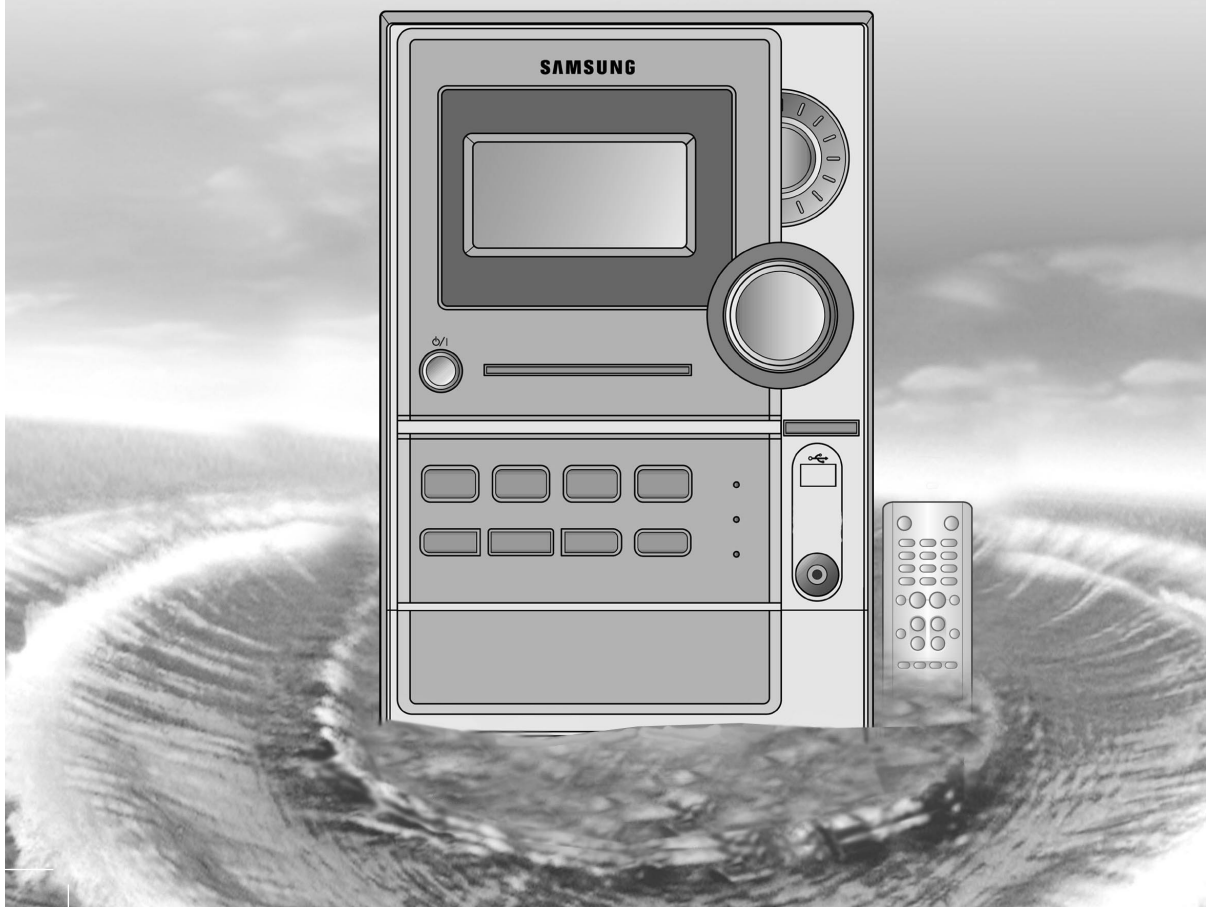
# MICRO COMPONENT AUDIO SYSTEM

## MP3-CD/CD-R/RW PLAYBACK

## MM-ZC9

## Instruction Manual



# Safety Warnings

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**CLASS 1 LASER PRODUCT**
**KLASSE 1 LASER PRODUKT**
**LUOKAN 1 LASER LAITE**
**KLASS 1 LASER APPARAT**
**PRODUCTO LASER CLASE 1**

**CAUTION**

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

**CAUTION:**
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**CLASS 1 LASER PRODUCT**

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTER LOCKS DEFEATED, AVOID EXPOSURE TO BEAM.**

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

This symbol indicates that dangerous voltage constituting of a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the owners manual accompanying this unit.



# Contents

***Thank you for buying this SAMSUNG micro component system.***

***Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.***

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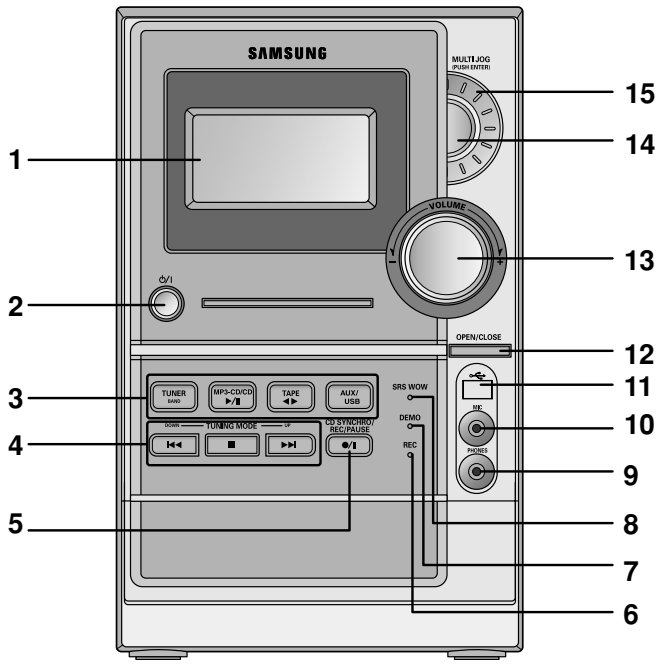
## Symbols

**Press** **Push** **Important** **Note**

## Front Panel View

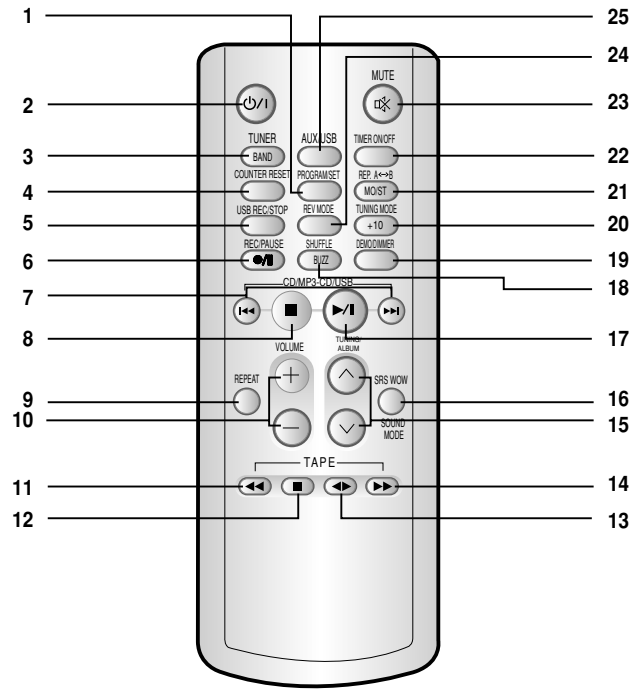



1. WINDOW DISPLAY
2. STANDBY/ON
3. FUNCTIONS (TUNER/MP3-CD/ CD/TAPE/AUX/USB)
4. SEARCH FUNCTION BUTTONS TUNING MODE OR STOP BUTTON
5. CD SYNCHRO / REC/PAUSE
6. REC INDICATOR
7. DEMO INDICATOR
8. SRS WOW INDICATOR
9. HEADPHONE JACK
10. MIC(OPTION)
11. USB JACK
12. CD DOOR OPEN/CLOSE
13. VOLUME CONTROL
14. PUSH ENTER
15. MULTI JOG



## Remote Control






1. PROGRAM/SET
2. STANDBY/ON
3. TUNER/BAND
4. COUNTER RESET
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6. REC./PAUSE
7. CD/USB SKIP OR SEARCH
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13. TAPE PLAY
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16. SRS WOW/SOUND MODE
17. CD PLAY/PAUSE
18. SHUFFLE/BUZZ
19. DEMO/DIMMER
20. TUNING MODE/+10
21. REPEAT A<->B/ FM MONO/STEREO
22. TIMER ON/OFF (CLOCK)
23. MUTE
24. REV.MODE
25. AUX/USB

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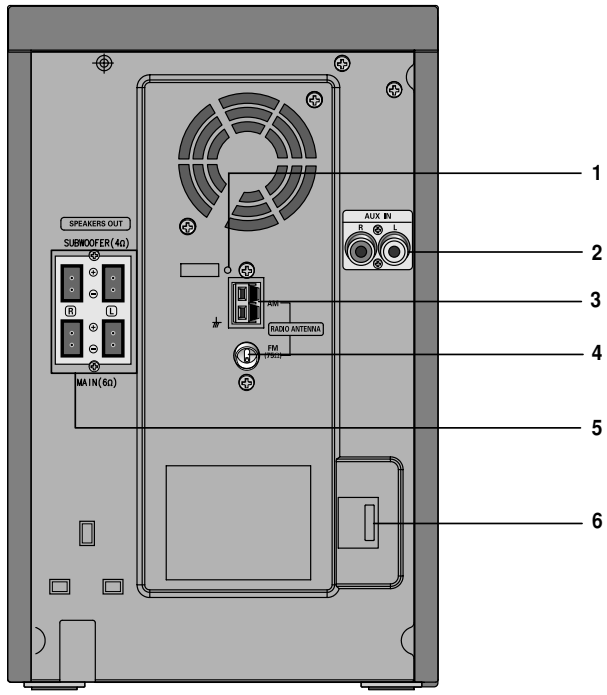
## Rear Panel View



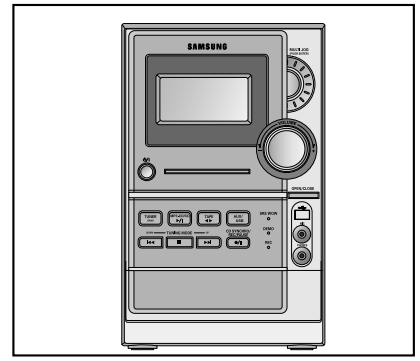

1. **SW Aerial Connector Terminals(option)**
2. **AUX-Input**
3. **AM Aerial Connector Terminals**
4. **FM Aerial Connector Terminal**
5. **Loudspeaker Connector Terminals**
6. **Voltage Selector(option)**



## Where to Install Your Micro Component System

**To take full advantage of your new micro component system, follow these installation instructions before connecting the unit.**

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.




## Connecting your System to the Power Supply

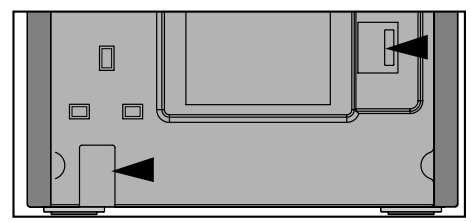
**The main lead must be plugged into an appropriate socket.**

☛ Before plugging your system into a main socket, you must check the voltage setting (OPTIONAL). If the voltage of the socket does not correspond to the setting on the rear of the unit, you may seriously damage your system.

**1** Check the position of the **Voltage selector** on the rear of the system (OPTIONAL).

**2** Plug the main lead into an appropriate socket.

**3** Press the ⏻/I button to switch your micro-component system on.



## Inserting Remote Control Batteries

**Insert or replace remote control batteries when you:**

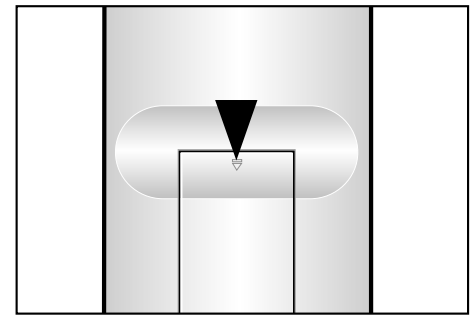
- Purchase the micro component system
- Find that the remote control is no longer operating correctly

☛ When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

**1** Place your thumb on the position marked ▽ on the battery compartment cover (rear of the remote control) and push the cover in the direction of the arrow.

**2** Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:
- + on the battery against + in the battery compartment
- – on the battery against – in the battery compartment

**3** Replace the cover by sliding it back until it clicks into position.



## Connecting to an External Source

**The auxiliary input can be used to take advantage of the sound quality of your micro component system when listening to other sources.**

Examples: ♦ A television
♦ A video disc player
♦ A Hi-Fi stereo video cassette recorder

➢ To connect to the external source, the source must have an audio output. In addition, you need an RCA connection cable.

**1** Set the system to standby mode and disconnect it and the external source from the main socket.

**2** Connect the audio cable to the rear of the micro component system.

| Connect the... | To the connector marked... |
|---|---|
| Red jack | R (right) |
| White jack | L (left) |

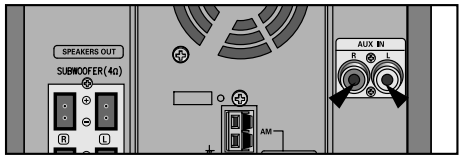
➢ For optimum sound quality, do not invert the right and left channels.

**3** Plug the system back into the main socket and press ( ⏻/❙ ) to switch it on.

**4** Select the AUX source by pressing **AUX**.
Result: **AUX** is displayed.

**5** Switch the external source on.

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo (as if you were in a cinema).

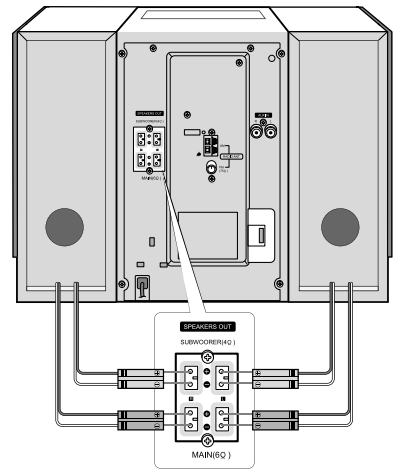



## Speaker Connection

**Main Speaker Connection: Connect the Speaker cords (red/black) to the Main Speaker jacks of System.**

♦ Red wire to the + terminals
♦ Black wire to the – terminals

**(Right Speaker)** **(Left Speaker)**




### Directions in Installing Speaker

♦ Installation in a place near heating apparatus, under direct lay of light or with high humidity may cause performance degradation of the speaker.
♦ Do not install on the wall or on a high place of pole or other unstable place to prevent any safety accident caused by falling of the speaker.
♦ Do not take the speaker apart from TV or computer monitor. The speaker near the TV or computer monitor may influence the quality of the screen display.



## Connecting the AM (MW)/LW Aerial

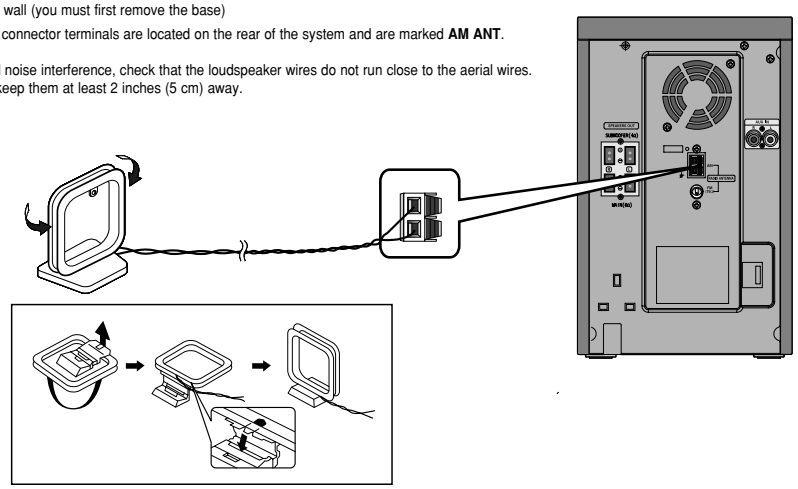


**The AM aerial (for long and medium waves) can be:**

♦ Placed on a stable surface
♦ Fixed to the wall (you must first remove the base)

The **AM** aerial connector terminals are located on the rear of the system and are marked **AM ANT**.

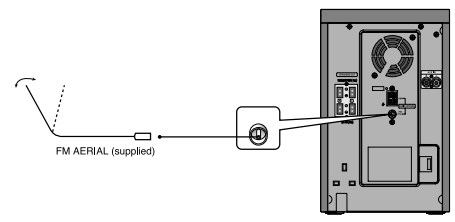
☛ To avoid noise interference, check that the loudspeaker wires do not run close to the aerial wires. Always keep them at least 2 inches (5 cm) away.

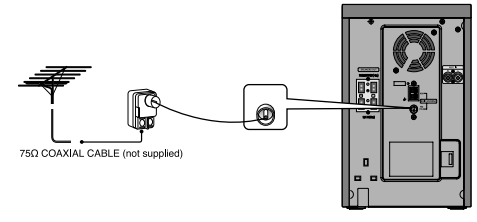


## Connecting the FM Aerial

**How to connect a COAXIAL TYPE aerial.**

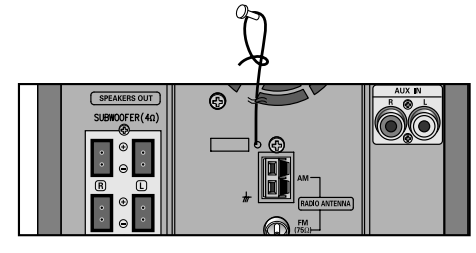
♦ Connect a 75Ω antenna to the **FM** antenna terminal.
♦ Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
♦ Follow the instructions given on **Page 19** to tune into a radio station, and determine the best position for the aerial.
♦ If reception is poor, you may need to install an outdoor aerial.
To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).




## Connecting the SW Aerial (option)

**How to connect a SW TYPE aerial .**
Spread the SW aerial out and attach the ends to a wall,in the position providing the best reception.
If reception is poor (e.g.distance from transmitter too great,walls blocking the radio waves ,etc),install an outdoor aerial.



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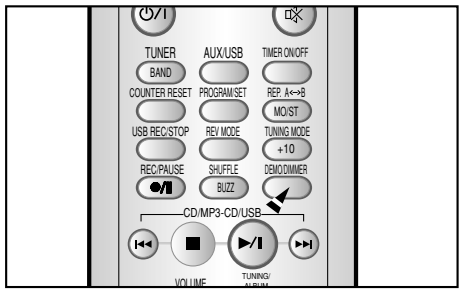
## DEMO Function

**You can view the various functions available on your system.**

**1** Press **DEMO**/**DIMMER** button.
Result: The various functions available are listed in turn on the display.

➢ All these functions are described in detail in this booklet.
For instructions on how to use them, refer to the appropriate sections.

**2** To cancel this function, press **DEMO**/**DIMMER** again.

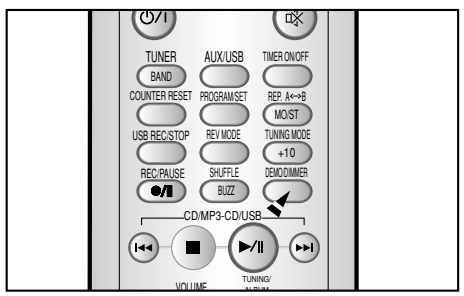



## DIMMER Function

**You can adjust the brightness of the VFD display depending on the surrounding lighting conditions.**

**1** Press the **DEMO**/**DIMMER** button.

♦ Your selection switches each time the button is pressed:
**DIMMER ON(Dim) → DIMMER OFF(Bright)**.




## Setting the Clock

**Your system is equipped with a clock which allows you to turn your system on and off automatically.**
**You should set the clock:**
- ♦ When you first purchase the micro component system
- ♦ After a power failure
- ♦ After unplugging the unit

☛ ♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

**1** Switch the system off by pressing (⏻/I) .

**2** Press **PUSH ENTER** twice on the front panel.
Result: **CLOCK** is displayed.

**3** Press **PUSH ENTER**.
Result: The hour flashes.

**4**

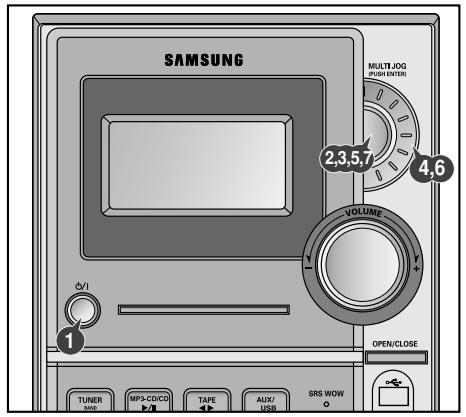
| To... | Turn MULTI JOG... |
|---|---|
| Increase the hours | clockwise |
| Decrease the hours | counterclockwise |

**5** When the correct hour is displayed, press **PUSH ENTER**.
Result: The minutes flash.

**6**

| To... | Turn MULTI JOG... |
|---|---|
| Increase the minutes | clockwise |
| Decrease the minutes | counterclockwise |

**7** When the correct time is displayed, press **PUSH ENTER**.
Result: ♦ "TIMER" appears in the display.
♦ The current time is now set.






## To replay the CD/MP3-CD

**You can play 12 cm or 8 cm compact discs without an adapter.**
**This unit has been designed to playback the CDs: Audio CD, CD Text, CD-R, CD-RW and MP3-CD.**

**Continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the unit.**

**1** Select the CD function by pressing **MP3-CD**/**CD**(√/») button.

**2** Press the **Open**/**Close** (▲) button.
Result: The compartment opens.

**3** Place your disc in the compartment, with the label on the disc facing upwards.

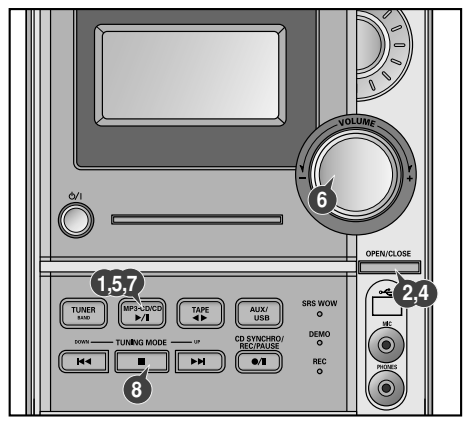
**4** Close the compartment by pressing the **Open**/**Close** (▲) button again.

**5** Press the **MP3-CD**/**CD**(▶/II) button.
- ♦ Your CD Player will take a few moments to scan through all the tracks recorded on a particular MP3-CD
- ♦ The English name of the song may be indicated on the display only if directly downloaded from the PC or if the purchased MP3-CD is sorted according to titles(directory).
(Other languages besides English may not be indicated.)
- ♦ The English name of the track may not be indicated depending on the characteristics of the MP3-CD.

**6** Adjust the volume according to needs with the following procedures.
- ♦ Turn the **VOLUME** control of the main unit.
or
- ♦ Press the **VOLUME +** or **—** button of the remote control.
The volume level can be adjust in 31 steps(VOL MIN,VOL 1- VOL 29,and VOL MAX).

**7** To stop playback temporarily, press the **MP3-CD**/**CD** (▶/II) button.
➢ Press **MP3-CD**/**CD** (▶/II) again to continue playing the disc.

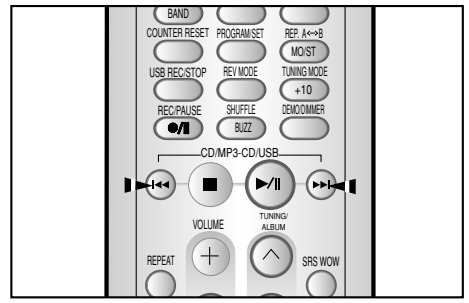
**8** Press the **STOP** (■) button when you have finished.




## Selecting a Track

**You can select the track you wish to listen to, either when the compact disc player is stopped or when a disc is playing.**

| To start playback at the beginning of the... | Press... |
|---|---|
| Next track | ▶▶I once |
| Current track | I◀◀ once |
| Previous track | I◀◀ twice |
| Track of your choice | I◀◀ or ▶▶I the appropriate number of times. |




## To select the MP3-CD album and track

**The album and track of the MP3-CD desired to listen may be selected on stopping or during playbacks.**

**1** To move the album, press the **TUNING**/**ALBUM** ∧ / ∨ button.

**2** To move the track, press the I◀◀, ▶▶I button.
- ♦ Moves the track within the album.
- ♦ If the I◀◀, ▶▶I button is pressed more than the number of tracks within the album, it moves to the next album.

➢ This function works only with remote control.

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## What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

## File Compatibility

- The unit will playback files created in MP3 format (Mpeg1.Layer3) with *.mp3 as their extension.
- Files created in MP2 format (Mpeg1.Layer2) with *.mp2 as their extension can also be played back.

## How many MP3 files can a CD-R or CD-RW disc record?

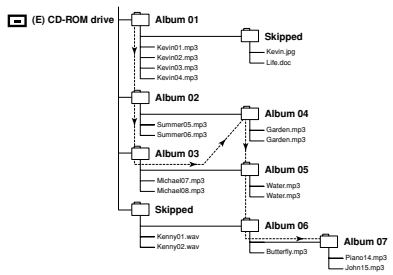
The maximum capacity of one CD-R or CD-RW disc is 740MB. Normally, one MP3 file has a capacity of 4MB, therefore approximately 180 files can be recorded on a single disc.

## Regarding the playback of CD-R/RW

- In the case of an original CD-R(Recordable) recorded in audio CD format, CD-RW(Rewritable) and editing by the user, playback is processed on the respective completed status. (The player may not be played back according to the characteristics of the CD or recorded status.)
- The CD-RW is comparably less reflexive than CD which causes more time delay to read.

## Playback sequence of albums and tracks

- In case of Window Explorer display.
- The arrows indicates playback sequence of albums and tracks.
- Tracks with jpg, wav or doc only are not audio files and therefore will be skipped.

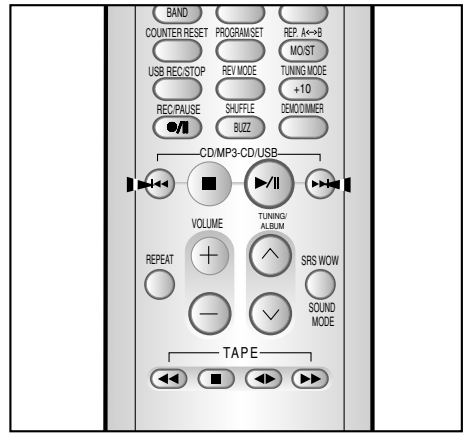



## Searching for a Specific Music Passage on a CD

**When listening to a compact disc, you can quickly search for a specific music passage on a track.**

| To search through the tracks... | Press and hold down... |
|---|---|
| Forwards | ⏮ for at least one second |
| Backwards | ⏭ for at least one second |

➢ It is recommended that you turn the volume down before using this function.



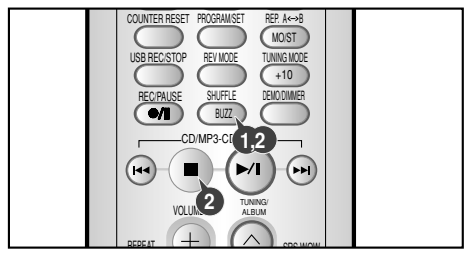

## Shuffle Play Function

**You can listen to the tracks on a compact disc in a different order each time, as the various tracks will be selected automatically in a random sequence.**

**1** Press the **SHUFFLE** button.
- If this button is pressed when the CD(SHUFFLE)or MP3-CD(RANDOM) is being played back or stopped, any track recorded in the CD may be selected to playback again.

**2** When you have finished the random playback, press **STOP**(■) or press the **SHUFFLE** button again.

➢ ♦ The Repeat and CD Synchro function is not supported from the Shuffle playback mode.



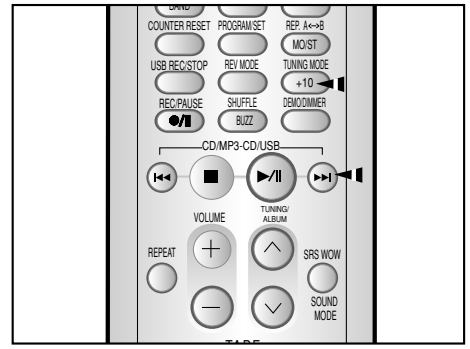



## Function to skip through 10 tracks at a time

**Press the +10 button briefly while playing back a CD. The track 10 tracks after the current one will then be played back.**

**Example:** If you want to select track 43 during playback of track 15, press the **+10** button three times, and then press the ⏭ button three times.

**15 → 20 → 30 → 40 → 41 → 42 → 43**




## Repeating One or All Tracks on the Compact Discs

**You can repeat indefinitely:**
- A specific track on a compact disc.
- All tracks on the compact disc selected.

**1**

| To repeat... | Press Repeat on the remote control one or more times until... |
|---|---|
| The current track indefinitely | **REPEAT 1** is displayed |
| All tracks | **REPEAT ALL** is displayed |

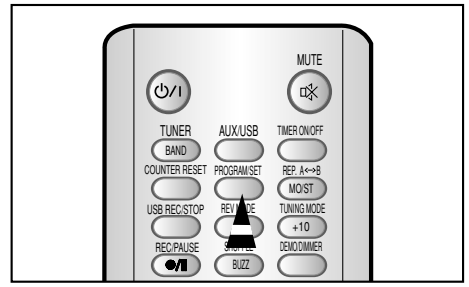
**2** To cancel this function, press **REPEAT** again.

## Last Memory Function

**(This function is only available during playback of an MP3-CD.)**

When CD playback is selected again after your CD player has been stopped or turned off, this function allows playback from the start of the track that you last listened to.

- Press the **PROGRAM/SET** button while your MP3-CD is being played back.
  The **LAST ON** and **LAST OFF** may be repeatedly selected.




## REPEAT A↔B Function

**(This function is not available during playback of an MP3-CD.)**

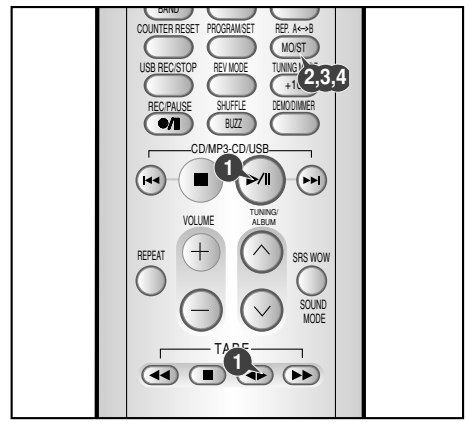
**When you select CD(TAPE) Repeat (A↔B) playback, the music passages to which you were listening is repeated 3 times.**

**1** Press **MP3-CD/CD(▶/II)** / **TAPE(◀▶)** button.
Result: The CD(TAPE) player starts playing.

**2** Press **REP. A↔B** button.
Result: The indications appear: START
- A Time is memorized.

**3** Press **REP. A↔B** button.
Result: The indications appear: END
- B Time is memorized.
- Your selected passages are repeated 3 times.

**4** When you have finished the Repeat playback, press **REP. A↔B**.



GB

## Programming the Order of Playback

**(This function is not available during playback of an MP3-CD.)**

**You can decide:**

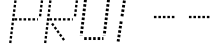
- The order of the track desired to listen
- The track not desired to listen

➢
- A maximum of up to 24 order of tracks desired to listen may be programmed.
- Before selecting the track, the CD player should be stopped.
- This function may be used simultaneously with the CD Repeat function.
- In the case of the MP3-CD, the PROGRAM/SET button may be used as the **RESUME ON**, **OFF** function.

**1** If the CD function is selected, stop the player by pressing ■ button.

**2** Load the selected CD.

**3** Press **PROGRAM/SET**.
Result: The following indications are displayed:




(01 = Program no., -- -- = Track no. on the disc)

**4** Select the required track by pressing:
- ⏮ to move back through the tracks
- ⏭ to move forward through the tracks

**5** Press **PROGRAM/SET** to confirm your selection.
Result: The selection is stored and PRO2 -- -- is displayed.

**6** To select other tracks, repeat Steps **4** to **5**.

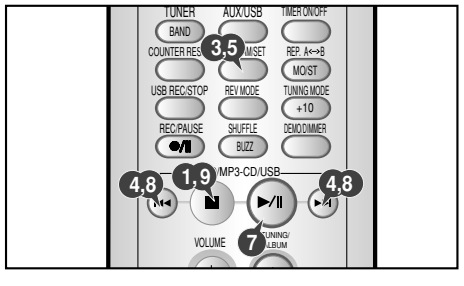
**7** Press **MP3-CD/CD (▶/II)** to listen to the track selection in the order programmed.

**8**

| To... | Press... |
|---|---|
| Listen to the current track again | ⏮ once |
| Listen to the previous track | ⏮ twice |
| Listen to the next track | ⏭ once |
| Skip forwards or backwards one or more tracks | ⏮ or ⏭ the appropriate number of times |

**9** To cancel the selection, press ■ button.
- Once if the compact disc player is stopped
  Result: **PROG** is no longer displayed.

➢
- If you open the compartment, the selection is cancelled.




## Checking or Changing Programmed Tracks

**You can check or change your selection of tracks at any time.**

**1** Press ■ once if you have started listening to the selection.

**2** Press **PROGRAM/SET** button twice.
Result: The following indications are displayed:

(01 = Program no., – – = Track no. on the disc)

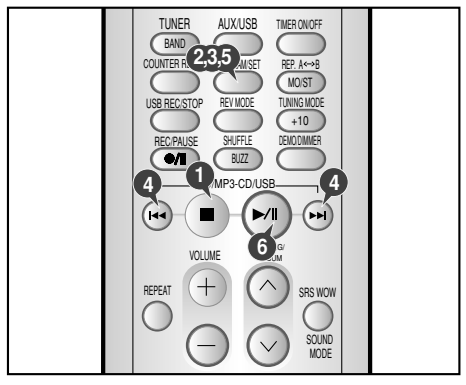
➢ If you have already programmed 24 tracks, **Check** is displayed instead of **CH** when you press **PROGRAM/SET**.

**3** Press **PROGRAM/SET** one or more times until the track to be changed is displayed.

**4** Press ⏮ or ⏭ to select a different track.

**5** Press **PROGRAM/SET** to confirm your change.

**6** Press **MP3-CD/CD (▶/II)** to start listening to the selection.
Result: The first track selected is played.



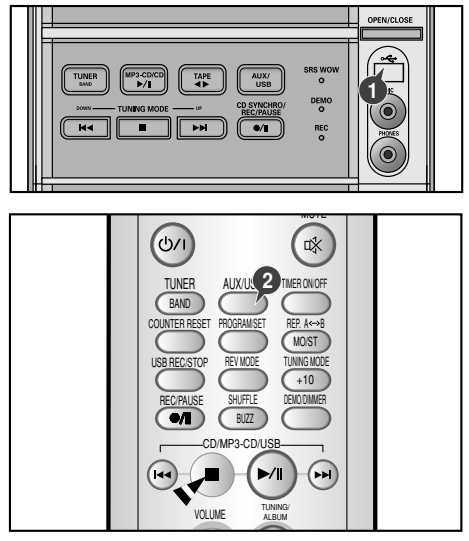

## Playing USB

**You can play MP3 files by connecting to various external USB storage devices such as USB flash memory or HDD. time.**

**1** Connect the external USB storage device to your player.

**2** Select USB function by using the **AUX/USB** button.
- The first track of the first directory plays automatically.

➢ **To stop playing**
Press the Stop ( ■ ) button to stop playing.
- Press the Stop ( ■ ) button once to pause, and press the button twice to stop completely.




☛
- If an external USB storage device is connected while the player is turned off, the power of the player turns on automatically and it begins playing.
- Do not connect USB charging device to the USB connection port of the player, because it may cause damage to the product.

GB

### Please be aware of the followings before using USB.

- Depending on the type of external USB storage device, it may not work even if it's connected to the player.
- With external HDD, FAT format can be played, but not NTFS format.
- With USB 2.0 HDD, connect to a separate power source.
  If it's not connected to a separate power source, it may not work.
- If memory of an external USB storage device is segmented into several parts, MP3 files of only the first hard disk drive can be played.
- Regarding directories, up to fourth directory can be played.
- DRM applied files are not played.
  Digital Rights Management: Technology and service that protect the profit and rights of copyright owners by disallowing unauthorized use of digital contents.
- Even if the file name ends with .mp3, the file does not play if actual file format is MPEG layer 1 or 2.
- Disconnect the external USB storage device only in safe removal mode("USB REMOVE" display ON/OFF). Otherwise, internal file can be damaged.
  Press the Stop ( ■ ) button more than 3 times to get into the safe removal mode.
  If you want to play files in the safe removal mode, disconnect and reconnect the external USB storage device.
- USB hub will not be recognized.
- Directory names are shown up to 14 letters, and MP3 file names up to 30 letters.

### Delay

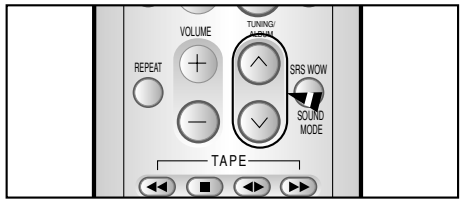
- When selecting USB function, depending of the speed of the external USB storage device, reading (READ-IN) internal information can take several minutes.
- When playing a USB device, recording or finding next track may introduce some delay. Especially with a mass storage device such as HDD, depending on the type and the number of files, the delay might be several minutes.
- Even with the external USB storage devices of same capacity, depending on the speed of each product, the amount of operating time can vary.
- If the external USB storage device supports only USB VER 1.1 and the access speed is slow, the recording may not work well or noise can be recorded.

## Selecting a Track from USB Device

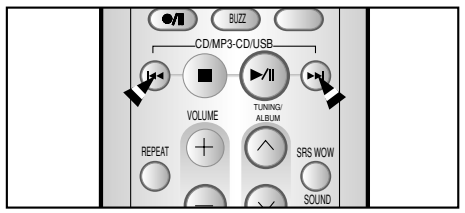
**You can select a desired directory and an MP3 file during the play or when it stopped.**

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

➢ Press the **TUNING/ALBUM** ∧ / ∨ buttons to move the directory.
♦ Each time you press the button, it will move to the directory before or after and play.
♦ This function works only in the remote control.




➢ If you want to move the file, press the ⏮ , ⏭ button shortly.
♦ It moves the file within the directory.
♦ If you press the ⏮ , ⏭ button more times than the number of the files in the directory, it will move over to the next directory.



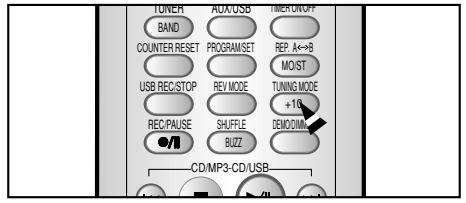

## To skip next 10 tracks

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

➢ Press the **+10** button on the remote control shortly during the play.
♦ A track that is 10 tracks after the current track plays.

**Example:** If you want to select 43rd track while 15th track is playing, press the +10 button 3 times and then press the ⏭ button 3 times.

15 → 20 → 30 → 40 → 41 → 42 → 43
(+10) (+10) (+10) (⏭) (⏭) (⏭)

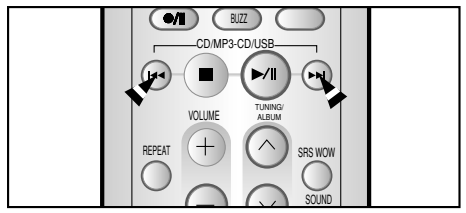



## To use high speed search

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**You can search the part you want quickly during the play**

➢ Press and hold the ⏮ , ⏭ button.
♦ Whenever you press and hold the button, you can search backward or forward 2X → 4X → 8X times quickly.




☛ ♦ When you use the high speed search function, there is no sound.

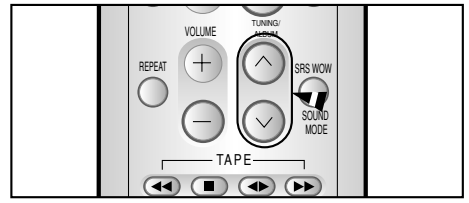


## To adjust the play speed

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**You can play the desired part fast or slow during the play. This function is very useful for studying language.**

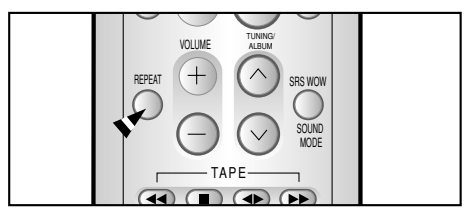
➢ Press and hold the **TUNING/ALBUM** ∧ / ∨ button during the play.
♦ Whenever you press and hold the ∧ button, it plays faster in speeds of 1.3X → 1.6X → 2.0X.
♦ Whenever you press and hold the ∨ button, it plays slower in speeds of 0.8X → 0.6X → 0.4X.




## To repeat

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

➢ Press the **REPEAT** button during the play.
♦ REPEAT 1 : repeat play one track only.
♦ 1 ALL : repeat play one directory only.
♦ REPEAT ALL : repeat play the entire directories.

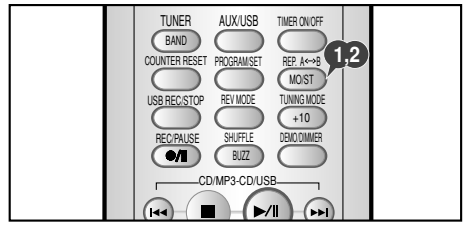



## To repeat section

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**1** Press the **REP.A<->B** button at the beginning of desired part.
♦ A REPEAT shows.

**2** Press the **REP.A<->B** button at the ending of desired part.
♦ A-B REPEAT shows and section repeat is played 3 times. Then it plays normal.




☛ ♦ Section repeat function works only within one track.

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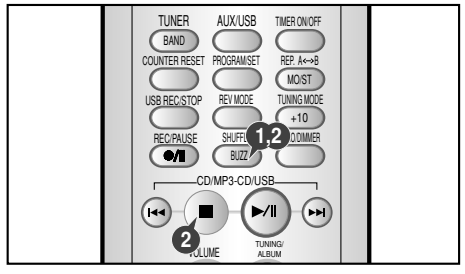
## To play in random sequence

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**You can listen in random sequence and not in the sequence of files.**

**1** Press the **SHUFFLE** button.
♦ RANDOM message appears on the screen and the files in all directories are played in random sequence.

**2** Press the Stop ( ■ ) button or the SHUFFLE button once more to cancel.



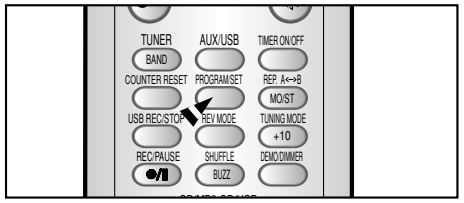

☛ ♦ Random Play function works only when there are more than 3 track in the external USB storage device.

## To use Last Memory function

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**Last Memory is a function that resumes playback from the last part of the previous listening when the user reselects USB function again after stopping the play, turning the power off or selecting another function.**

➢ Press and hold the **PROGRAM/SET** button,
♦ LAST ON and LAST OFF are repeatedly selected.




## Recoding USB (Encoding)

**You can record the sounds of CD, MP3-CD, cassette tape, radio broadcast and external device in the external USB storage device as MP3 files.**

**Before you begin!** ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the AUX/USB button.

**Example:** When recording a CD

**1** Connect the external USB storage device to your player.

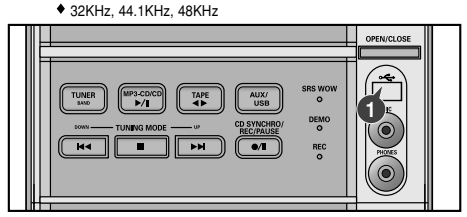
**2** Press the **USB REC/STOP** button.
♦ 'SS-REC' directory is created in the external USB storage device and the track is stored as MP3 file.
If SS-REC directory was already created, the MP3 file is saved in the directory without creating another directory.

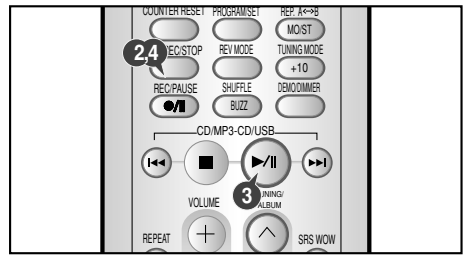
**3** Press the **Play/Pause (▶/II)** button to play the CD.
♦ Press the ⏮ , ⏭ button to select a desired track.

**4** If you want to stop, press the **USB REC/STOP** button again.

➢ **USB Recording (Encoding) Specifications**
♦ CD/MP3-CD: 128Kbps, 44.1KHz
♦ Cassette Tape and External Device: 64Kbps, 24KHz
♦ Radio Broadcast:64kbps,16KHz

➢ **USB Recording (Encoding) Specifications**
♦ MPEG 1, 2, 2.5 Layer 3
♦ 32Kbps~320Kbps
♦ 32KHz, 44.1KHz, 48KHz




☛ ♦ Depending on the type of the external USB storage device, recorded (encoded) file may not be played from the external USB storage device. But, the file will be played if the file is saved in the player.
♦ When recording on an external USB storage device, check to make sure that there are more than 10MB of free space.
When it is less than 10MB, you will not make a recording.
♦ If you try to make a record on connecting an external USB storage device, the recording may fail. Wait a moment after connecting an external USB device until SPACE CHK message disappears on the screen because SPACE CHK message appears when the player is reading information necessary for recording.
♦ When you make a recording a cassette tape, radio or other external device for a long time, a new file is created and saved at every 21 minutes.
♦ If you make a recording for longer than 21 minutes, approximate 10 seconds will not be recorded to prepare the following recording operation.



## Searching for and Storing the Radio Stations

**You can store up to:**

♦ 15 FM stations
♦ 15 AM stations — (option)

♦ 15 FM stations
♦ 8 MW stations
♦ 7 LW stations — (option)

♦ 15 FM stations
♦ 5 MW stations
♦ 5 SW1 stations
♦ 5 SW2 stations — (option)

**1** Switch the system on by pressing (⏻/I).

**2** Select the required frequency band by pressing **TUNER/BAND** again on the front panel or **BAND** on the remote control.
Result: The appropriate indication is displayed:

| | |
|---|---|
| ♦ **FM** | Frequency Modulation |
| ♦ **MW** | Medium Wave |
| ♦ **LW(OPTION)** | Long Wave |
| ♦ **SW1, SW2(OPTION)** | Short Wave |

**3**

| To search for a station... | Press TUNING MODE |
|---|---|
| Manually | One or more times until **MANUAL** is displayed. |
| Automatically | One or more times until **AUTO** is displayed. |

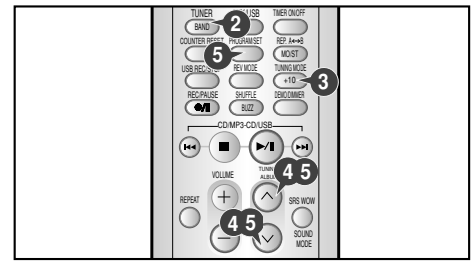
➢ PRESET function is explained in detail in the section "Selecting a Stored Station" on.

**4** Select the station to be stored by:
♦ Pressing ⏮ or ⏭ buttons on the front panel or ^ or v buttons on the remote control to increase or decrease the frequency respectively.
♦ To scroll through the frequencies faster when searching manually, hold down the ⏮ or ⏭ buttons.
♦ The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

**5** If you do not want to store the radio station found, revert to Step **4** and search for another station.
Otherwise:
**a** Press **PROGRAM/SET**.
Result: The **PROG** is displayed for a few seconds.
**b** Pressing ⏮ or ⏭ buttons on the front panel or ^ or v buttons on the remote control to assign a program number .
**c** Press **PROGRAM/SET** to store the radio station.
Result: **PROG** is no longer displayed and the station is stored.

**6** To store any other radio frequencies required, repeat Steps **3** to **5**.

➢ ♦ The PROGRAM function can be used to assign a new station to an existing program number.




## Selecting a Stored Station

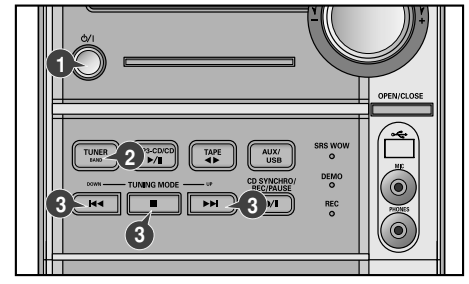
**You can listen to a stored radio station as follows:**

**1** Switch the system on by pressing (⏻/I).

**2** Select the required frequency band by pressing **TUNER/BAND** on the front panel.

**3** Select the radio station as follows.

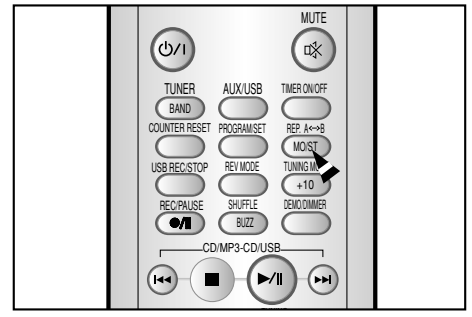
| To listen to ... | Press ... |
|---|---|
| Stored station | 1. the **TUNING MODE** button until "**PRESET**" is displayed.<br>2. ⏮ or ⏭ button to select the required program. |




## Improving Radio Reception

**You can improve the quality of radio reception by:**
♦ Rotating the FM or AM(MW) aerial

➢ If reception from a specific FM radio station is poor, press **MO/ST.** to switch from stereo mode to mono. The quality of the sound will be improved.



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## Listening to a Cassette

➢ ♦ Always treat your cassettes with care; refer, if necessary, to the section entitled "**Precautions When Using Audio Cassettes**" on **page 26**.

**1** Switch the system on by pressing (⏻/ I ).

**2** Open the cassette deck by pushing on the corner of the cover marked **PUSH EJECT** ( ⏏ ) until you hear a click and then releasing it.
- ♦ Insert the pre-recorded cassette with the open edge of the tape facing downwards.

**3** Close the deck by pushing on it until it clicks into place.

**4**

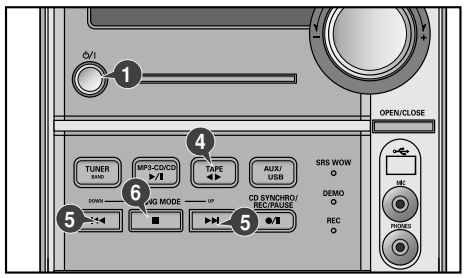
| To listen to... | Press ... |
|---|---|
| Side A | Tape ( ◄► ) button once. |
| Side B | Tape ( ◄► ) button twice. |

Result: The cassette starts playing.

**5** Press the ⏮ , ⏭ or ◄◄ , ►► button if necessary.

| To... | Press ... |
|---|---|
| Rewind the cassette | ⏮ / ◄◄ button. |
| Fast-forward the cassette | ⏭ / ►► button. |

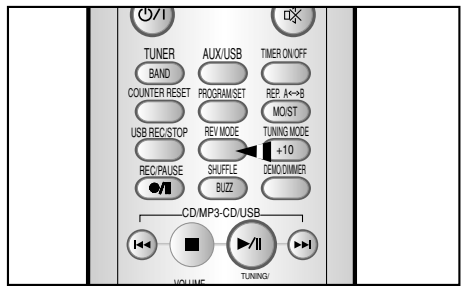
**6** When you have finished playback, press ■ button.




## Selecting the Cassette Playback Mode

**Your micro component system has three cassette playback modes which enable you to listen to both sides of a cassette automatically.**
**Press REV.MODE until the appropriate symbol is displayed.**

| When the display indicates... | The micro component system plays back... |
|---|---|
| ⇉ | One side of the selected cassette and then stops. |
| ⇄ | One side of the cassette. The other side of the cassette and then stops. |
| ⟲ | Both sides of the cassette indefinitely until you press stop. |

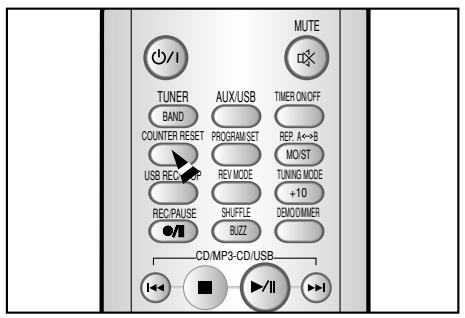



## Tape Counter

**When playing a cassette, a counter is displayed to enable you to take note of the counter value at the start of each track and thus start playback at the beginning of the track to which you wish to listen.**

➢ The counter is only displayed when a cassette is being played.

Before starting to record a cassette for which you wish to take note of the counter values at the beginning of each track, reset the counter by pressing **COUNTER RESET**.






## Recording a Compact Disc

**You can record a compact disc on a cassette in two different ways:**
- ♦ Synchronised recording
- ♦ Direct recording

### Synchronised recording

**This feature enables you to synchronize the start of the recording with the start of the disc or track of your choice.**

**1** Switch the system on by pressing (⏻/ I ) .

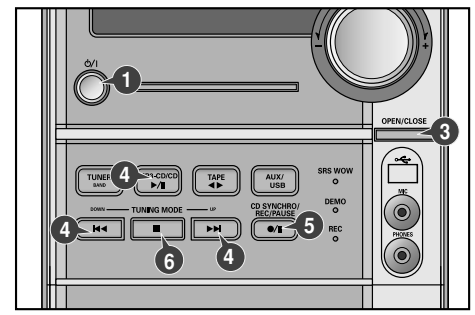
**2** Insert a blank cassette in Deck.
- ♦ Press the **PUSH/EJECT** button ( ⏏ ) to open the cassette door, insert a cassette, and then close the cassette door.
- ♦ Insert the cassette with the safety tabs.

**3** Load a compact disc.
- ♦ Press the **OPEN/CLOSE** button ( ⏏ ) to open the CD door.
- ♦ Insert a CD and press the **OPEN/CLOSE** button ( ⏏ ) to close the CD door.

**4** Press the **MP3-CD/CD(►/II)** button.
- ♦ Use the CD selection ( ⏮ , ⏭ ) buttons to select the desired song.

**5** Press and hold **CD SYNC/REC/PAUSE** button.
- ♦ When stopped, press the button to start the recording from the first piece of music.
- ♦ Press and hold **CD SYNC/REC/PAUSE** button during the play-back of CD to start the recording from the first part of the music being played.

**6** To stop recording, press ■ button.




### Direct recording

**The direct recording mode enables you to start recording with any track on the compact disc.**

♦ You do not need to adjust the volume, as it has no effect on the recording.

**1** Switch the system on by pressing (⏻/ I ) .

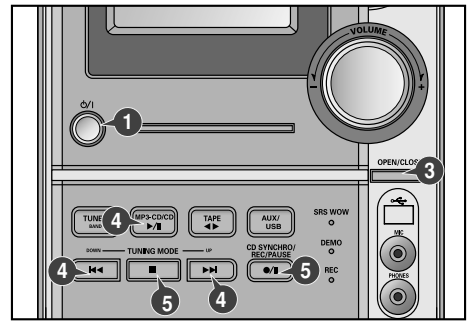
**2** Insert a blank cassette in Deck.
- ♦ Press the **PUSH/EJECT** button ( ⏏ ) to open the cassette door, insert a cassette, and then close the cassette door.
- ♦ Insert the cassette with the safety tabs.

**3** Load a compact disc.
- ♦ Press the **OPEN/CLOSE** button ( ⏏ ) to open the CD door.
- ♦ Insert a CD and press the **OPEN/CLOSE** button ( ⏏ ) to close the CD door.

**4** Press the **MP3-CD/CD(►/II)** button.
- ♦ Use the CD selection ( ⏮ , ⏭ ) buttons to select the desired song.

**5** Press the **CD SYNC/REC/PAUSE** button.

Result: ♦ Recording will begin.
♦ To stop recording, press ■ button.




## Recording a Radio Program

**You can record a radio program of your choice.**

♦ You do not need to adjust the volume, as it has no effect on the recording. ♦ When the USB storage device is connected to your player,recording starts into USB recording if you press REC/PAUSE button .

**1** Switch the system on by pressing (⏻/ I ) .

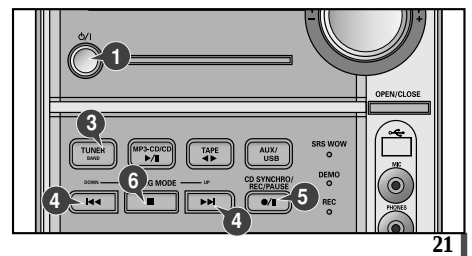
**2** Insert a blank cassette in Deck.

**3** Select the TUNER function by pressing **TUNER/BAND**.

**4** Select the radio station that you wish to record by pressing ⏮ or ⏭ button .

**5** Press the **CD SYNC/REC/PAUSE** button.
Result: **REC** is displayed and recording starts.

**6** To stop recording, press ■ button.



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## Timer Function

**The timer enables you to switch the system on or off at specific times.**

**Example:** You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛ ♦ Before setting the timer, check that the current time is correct.
♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

**1** Switch the system off by pressing ( ⏻/I ) .

**2** Press **PUSH ENTER** until **TIMER** is displayed.

**3** Press **PUSH ENTER.**
Result: **ON TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

**4** Set the timer switch-on time.
**a** Set the hour by turning **MULTI JOG** button.
**b** Press **PUSH ENTER**.
Result: The minutes flash.
**c** Set the minutes by turning **MULTI JOG** button.
**d** Press **PUSH ENTER**.
Result: **OFF TIME** is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

**5** Set the timer switch-off time.
**a** Set the hour by turning **MULTI JOG** button.
**b** Press **PUSH ENTER**.
Result: The minutes flash.
**c** Set the minutes by turning **MULTI JOG** button.
**d** Press **PUSH ENTER**.
Result: **VOL 10** is displayed, where **10** corresponds to the volume already set.

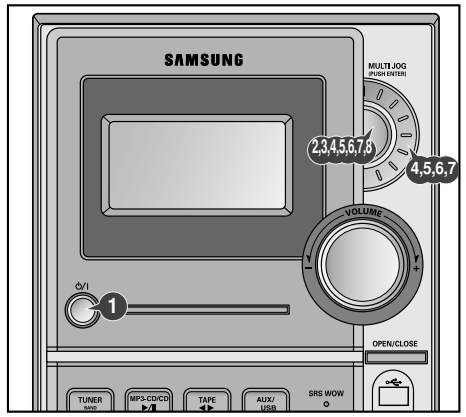
**6** Turn **MULTI JOG** button to adjust the volume level and press **PUSH ENTER**.
Result: The source to be selected is displayed.

**7** Turn **MULTI JOG** button to select the source to be played when the system switches on.

| If you select... | You must also... |
|---|---|
| TAPE (cassette) | Insert a cassette tape. |
| TUNER (radio) | **a** Press **PUSH ENTER**.<br>**b** Select a preset station by turning **MULTI JOG**. |
| CD (compact disc) | Load a compact disc. |
| USB | Insert a USB device. |

**8** Press **PUSH ENTER** to confirm the timer.

Result: ◷ is displayed to the bottom left of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.




## Canceling the Timer

**After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.**

➢ You can stop the timer at any time (system on or in standby mode).

| To... | Press TIMER ON/OFF... |
|---|---|
| Cancel the timer | Once.<br>Result: ◷ is no longer displayed. |
| Restart the timer | Twice.<br>Result: ◷ is displayed again. |

➢ You can watch the time if you press and hold **TIMER ON/OFF** button.

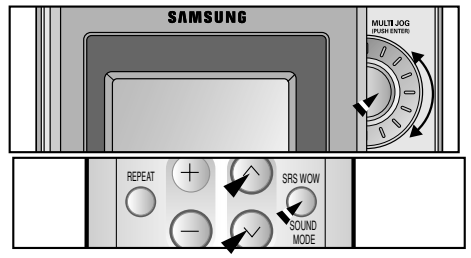
## Selecting Sound Mode

**Your micro component system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.**
**The function of Power Sound amplifies bass and improves high key or bass twice as much for you to appreciate powerful real sound.**

Press **SOUND MODE** on the remote control or **MULTI JOG(PUSH ENTER)** button on the front panel until the required option is selected.

Result: Turn the **MULTI JOG(PUSH ENTER)** button or press ∧ / ∨ repeatedly to select "**EQ PASS→POP → ROCK →CLASSISC →JAZZ→ S.BASS → P.SOUND**".

♦ S.BASS Function : S.Bass function emphasizes the bass sound to produce the effect of explosion or booms.
♦ P.SOUND Function : You can experience the powerful and realistic sound by amplifying bass and improving the sound quality of high- and low-pitched sounds by two-fold.



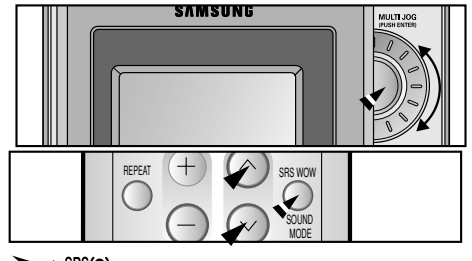

## SRS WOW Function

**You can enjoy realistic surround sound by using the SRS and TruBass sound field functions and the SRS WOW function that enhances sound clarity.**

Press the **SRS WOW** or **MULTI JOG(PUSH ENTER)** button until the required option is selected.

Result: Turn the **MULTI JOG(PUSH ENTER)** button or press ∧ / ∨ , the selection changes as follows: **TRUBASS → SRS → SRS WOW→SRS OFF**.

♦ TruBASS Function: Enhances the bass and low frequencies to produce deep and rich bass sounds.
♦ SRS Function: Provides the surround sound that fills the room.
♦ SRS WOW Function: Provides the surround sound effects with enhanced sound field depth and bass, through speakers and headphones.




➢ ♦ SRS(●) WOW is a trademark of SRS Labs, Inc.
♦ **WOW** technology is incorporated under license from SRS Labs, Inc.

## Treble Level Function

**Treble Control function stresses high tones providing thudding sound effects.**

**1** Press **MULTI JOG(PUSH ENTER)** button or **SOUND MODE** on the remote control until **TREB 00** is displayed. Turn **MULTI JOG(PUSH ENTER)** knob or press ∧ / ∨ to select from **TREB -07** to **TREB 07,** total 15 steps**.**

**2** You can select the level of high tones you desire.

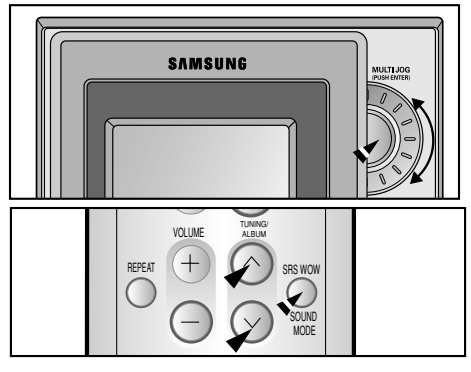



## BASS Level Function

**BASS function stresses low tones providing thudding sound effects.**

**1** Press **MULTI JOG(PUSH ENTER)** button or **SOUND MODE** on the remote control until **BASS 00** is displayed. Turn **MULTI JOG(PUSH ENTER)** knob or press ∧ / ∨ to select from **BASS -07** to **BASS 07,** total 15 steps**.**

**2** You can select the level of low tones you desire.



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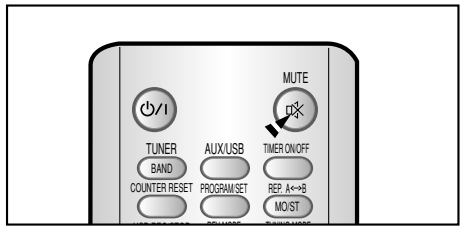
## MUTE Function

**You can turn the sound off temporarily on your system.**
**Example:** You wish to answer a telephone call.

**1** Press **MUTE** ( ).

**2** To switch the sound back on (at the same volume as before), press **MUTE** again or the **VOLUME** buttons.




## Setting the System to Switch off Automatically

**While listening to a compact disc or a cassette, you can set the system to switch off automatically**
**Example:** You wish to go to sleep to music.

**1** Press **MULTI JOG(PUSH ENTER)** button until the option is selected .
Result: The following indications are displayed:

**90 MIN**

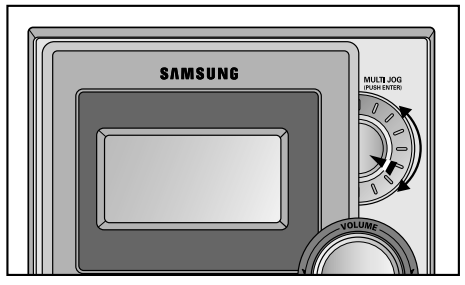
**2** Turn **MULTI JOG(PUSH ENTER)** knob to indicate how long the system should continue playing before it switches off:

**15 MIN → 30 MIN → 45 MIN → 60 MIN → 90 MIN → SLEEP OFF**

At any time, you can:

- ♦ Check the remaining time by pressing **MULTI JOG (PUSH ENTER).**
- ♦ Change the remaining time by repeating Steps **1** and **2.**

**3** To cancel SLEEP function,Turn **MULTI JOG(PUSH ENTER)** knob one or more times until **SLEEP OFF** is display.

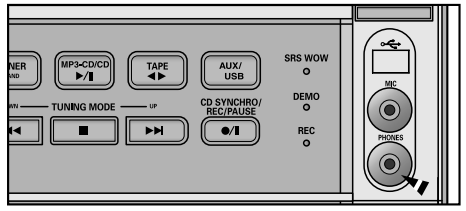



## Connecting Headphones

**You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5ø jack or an appropriate adapter.**

Connect the headphones to the **PHONES** jack on the front panel.
Result: The loudspeakers are no longer used to output the sound.

☛ Prolonged use of headphones at a high volume may damage your hearing.

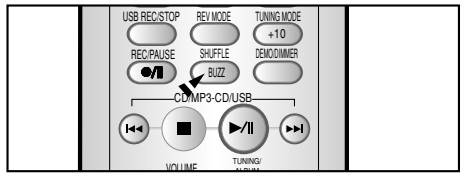



## To turn the buzzer sound ON/OFF

**Before you begin!**
- ♦ Connect the external USB storage device to your player.
- ♦ Select USB function by using the AUX/USB button.

**You can turn on or off the buzzer that sounds when you press the button on the player.**

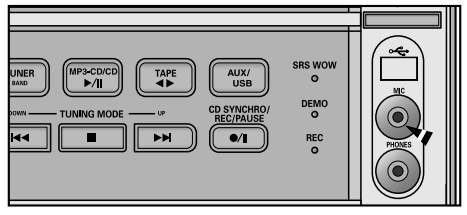
➢ Press and hold the **BUZZ** button.
- ♦ When you press and hold the BUZZ button, BUZZER ON and BUZZER OFF repeats.




## Microphone Function (option)

**The microphone enables the user to mix in his or her vocals to sing -along with the music.**

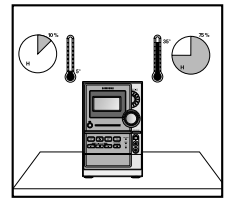
Preparation
Plug the microphone with a 3.5mm jack into microphone terminal.



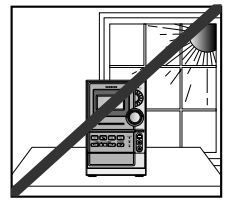



## Safety Precautions

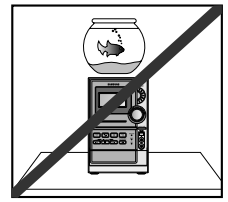
**The following diagrams illustrate the precautions to be taken when using or moving your micro component system.**



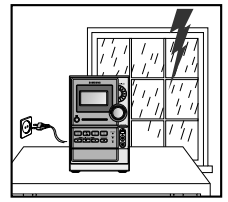
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



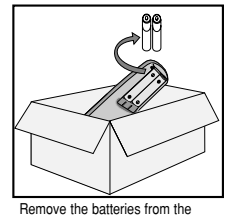
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.

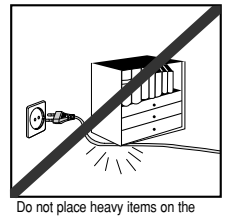


During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.

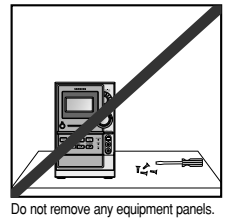


Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.

When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

## Cleaning Your Micro Component System

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**To obtain the best possible results from your micro component system, you must clean the following elements regularly:**

- ♦ The outer casing
- ♦ The compact disc player
- ♦ The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:
- ♦ Before cleaning it
- ♦ If you are not going to be using it for a long time

***Outer Casing***
Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

***Compact Disc Player***

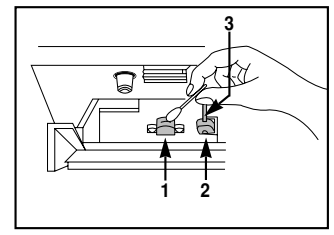
**1** Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

**2** Regularly clean the player with a special cleaning disc (available from your local dealer).

***Tape Decks***

**1** Press **PUSH EJECT**( ⏏ ) to open the cassette deck.

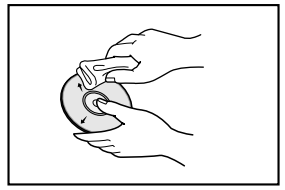
**2** Use a cotton bud and a special cassette cleaning agent to clean the:
- ♦ Head (1)
- ♦ Rollers (2)
- ♦ Drive capstans (3)




☛
- ♦ If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- ♦ Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- ♦ If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

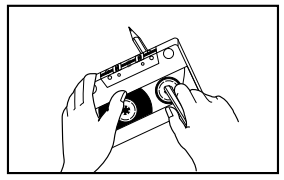
## Precautions When Using Compact Discs

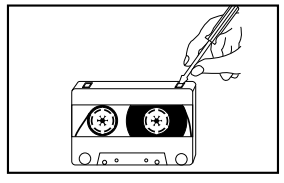
- Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a compact disc, always put it back in its case.
- Do not fix paper or adhesive tape to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Always use compact discs marked DIGITAL AUDIO .

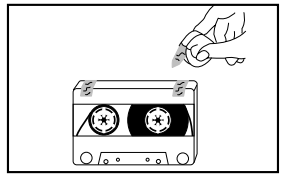


## Precautions When Using Audio Cassettes

- Check that the tape in the cassette is sufficiently taut.
- To prevent erasing a cassette that you wish to keep, remove the safety tab on the upper edge of the cassette. To record a cassette, where the tab has been broken, simply cover the opening with adhesive tape.
- When you have finished playing a cassette, always put it back in its case.
- Store your cassettes in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Avoid using 120-minute cassettes as they place unnecessary strain on the tape mechanism.







## Before Contacting the After-Sales Service

**It always takes a little time to become familiar with a new appliance. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.**

| | Problem | Checks/Explanation |
|---|---|---|
| GENERAL | The system does not work | • *The main lead is not correctly plugged into a wall socket or the wall socket is not switched on.*<br>• *The remote control batteries need replacing or the polarity has not been respected.*<br>• *The ⏻/I button has not been pressed.* |
| | There is no sound | • *The volume has been completely turned down.*<br>• *The correct function (TUNER, MP3-CD/CD, TAPE, AUX/USB) has not been selected.*<br>• *You have connected a set of earphones.*<br>• *The loudspeaker wires have been disconnected.*<br>• *The **MUTE** button has been pressed.* |
| | The Timer does not work | • *The timer has been stopped by pressing **TIMER ON/OFF**.* |
| | In case it does not work, even the action is taken as above. | • *Press the **STOP** (■ )button for 5 seconds in power 'OFF'(standby), then it is returned the original position (RESET)* |
| CD | The compact disc player does not start playing | • *The CD function has not been selected.*<br>• *The disc has been inserted face down or is either dirty or scratched.*<br>• *The laser sensor is dirty or dusty.*<br>• *The system has not been installed on a flat, horizontal surface.*<br>• *Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.* |
| CASSETTES | The tape does not start playing | • *The TAPE function has not been selected.*<br>• *The cassette has not been inserted correctly.*<br>• *The cassette player has not been closed.*<br>• *The tape is either slack or broken.* |
| | The volume falls off<br>The cassette is not erased correctly<br>There is excessive wow and flutter | • *The audio heads are dirty.*<br>• *The rollers or drive capstans are dirty.*<br>• *The tape is worn.* |
| RADIO | Reception is poor or no radio stations are received at all | • *The TUNER function has not been selected.*<br>• *The radio frequency has not been correctly selected.*<br>• *The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation.*<br>• *You are in a building that blocks radio waves; you must use an outside aerial.* |

If the above guidelines do not allow you to solve the problem, take a note of:

- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.



## Technical Specifications



**SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.**

| | |
|---|---|
| **RADIO** | |
| **SW(option)** | |
| Usable sensitivity | 40 dB |
| **LW** | |
| Usable sensitivity | 62 dB |
| **AM (MW)** | |
| Signal/noise ratio | 40 dB |
| Usable sensitivity | 56 dB |
| Total harmonic distortion | 2 % |
| **FM** | |
| Signal/noise ratio | 60 dB |
| Usable sensitivity | 3 dB |
| Total harmonic distortion | 1.0 % |
| **COMPACT DISC PLAYER** | |
| Frequency range | 20 Hz - 20 KHz (± 1 dB) |
| Signal/noise ratio | 70 dB (at 1 KHz) with filter |
| Distortion | 0.05 % (at 1 KHz) |
| Channel separation | 80 dB |
| Disc sizes | Diameter: 120 or 80 mm. Thickness: 1.2 mm |
| **TAPE DECK** | |
| Frequency range | 125 Hz ~ 10 KHz |
| Signal/noise ratio | 40 dB |
| Channel separation | 35 dB |
| Erasing effect | 60 dB |
| **AMPLIFIER** | |
| Output power | Main unit(6Ω) ····· 2X20 Watts RMS (total harmonic distortion : 10%)<br>Subwoofer(4Ω) ····· 2X40 Watts RMS (total harmonic distortion : 10%) |
| Channel separation | 50 dB |
| Signal/noise ratio | 80 dB |
| **GENERAL** | |
| Dimensions | 170(W) x 270(H) x 350(D) mm |

THIS APPLIANCE IS MANUFACTURED BY:

SAMSUNG ELECTRONICS

AH68-01664K